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PPLICATION NO. FILING DATE		ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO. 3824	
09/754,406	9/754,406 01/02/2001		Songjie Xu	APLUS.001A		
20995	7590	590 08/10/2006		EXAMINER		
		NS OLSON & BEA	STEVENS, THOMAS H			
2040 MAIN FOURTEEN		OR	ART UNIT	PAPER NUMBER		
IRVINE, CA 92614				2123		
				DATE MAILED: 08/10/2000	DATE MAILED: 08/10/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

•		A	Application No.	Applicant(s)					
Office Action Summary			09/754,406	XU, SONGJIE					
			xaminer	Art Unit					
		• т	homas H. Stevens	2123					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply									
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).									
Status									
2a)	Responsive to communication(s) filed on This action is FINAL . 2b) Since this application is in condition for a closed in accordance with the practice up	This ac	ction is non-final. e except for formal matters, pro						
Disposition of Claims									
5)⊠ 6)⊠ 7)□	Claim(s) 1-11,13-28 and 32-37 is/are per 4a) Of the above claim(s) is/are were claim(s) 25-28 is/are allowed. Claim(s) 1-11,13-24 and 32-37 is/are rej claim(s) is/are objected to. Claim(s) are subject to restriction	rithdrawn	from consideration.	•					
Application Papers									
9) 10)	The specification is objected to by the Ex The drawing(s) filed on is/are: a)[Applicant may not request that any objection Replacement drawing sheet(s) including the The oath or declaration is objected to by	accept to the dra correction	awing(s) be held in abeyance. See is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).					
Priority :	under 35 U.S.C. § 119								
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 									
2) Notion (3) Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-smation Disclosure Statement(s) (PTO-1449 or PTOer No(s)/Mail Date		4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	(PTO-413) ate ratent Application (PTO-152)					

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DETAILED ACTION

- 1. Claims 1-11, 13-28 and 32-37 were examined.
- Claims 12, and 29-31 were cancelled.

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Section I: Non-Final Rejection

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 1-11, 13-24, 32-37 are rejected under 35 U.S.C. 112, second paragraph, as being incomplete for omitting essential structural cooperative relationships of elements, such omission amounting to a gap between the necessary structural connections. See MPEP § 2172.01. The omitted structural cooperative relationships are as follows: (claim 1, for example) the limitation is silent as how does one reduce delays.

Claim Rejections - 35 USC § 101

5. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-11, 13-24, 32-37 are rejected under 35 U.S.C. 101 because the limitations denote function language does not provide a concrete tangible end result.

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Section II: Allowable Subject Matter

6. Claims 25-28 are allowable.

7. The following is an examiner's statement of reasons for allowance:

While US Patent 5,648,913 teaches (claim 25) the desired circuit delay using a timing optimization process, wherein in an iteration, mapping and clustering are used of measure the outcome of the timing optimization procedure, and wherein the timing optimization, none of these references, taken either alone or in combination, with the prior art of record disclose:

(claim 25) "a layout-driven logic synthesis design flow, comprising: selecting a desired circuit delay associated with a first output of a circuit path, wherein other outputs are associated with different initial circuit delays; calculating an initial circuit delay associated with the first output; and iteratively reducing the initial circuit delay to achieve process uses such measurements to achieve the desired delay, and wherein the result of an interaction of delay reduction is used by a next iteration of delay reduction to determine an amount of delay to reduce"

in combination with the remaining elements and features of the claimed invention. It is for these reasons that the applicants' invention defines over the prior art of record.





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8. Claims 25-28 are allowable. Furthermore, all the claims are novel in view of the prior art only; however, the remaining claims have issues outstanding. Applicants are currently researching possible solutions to this issue as agreed to.

Correspondence Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mr. Tom Stevens whose telephone number is 571-272-3715, Monday-Friday (8:00 am- 4:30 pm EST).

If attempts to reach the examiner by telephone are unsuccessful, please contact examiner's supervisor Mr. Paul Rodriguez 571-272-3753. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov.. Answers to questions regarding access to the Private PAIR system, contact the Electronic Business Center (EBC) (toll-free (866-217-9197)).

August 4, 2006

TS

PAUL RODRIGUEZ SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2100